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has been made to establish a "dead line" to prevent further spread of the insect. A zone of timber consisting largely of white pine and other evergreens is selected and all hardwoods or broad-leaf growth removed. As the insects are unable to complete their life history on the pines, they are checked and it may be possible to prevent their spreading northward into the Adirondacks, or into the Catskills, through the maintenance of such zones of coniferous growth. In the caterpillar stage the two moths do the greatest damage and the greatest spread of the insect occurs at this time. They are often blown long distances by the wind or carried by automobiles and other vehicles and much can be done in preventing this kind of distribution by keeping the roadside districts free of the caterpillars through spraying and the removal of their favored food plants.

The outbreak of the gipsy moth in this state in the summer of 1912 was not extensive and by prompt measures, such as the removal of infested trees, spraying, etc., the colony was destroyed. It is entirely possible, however, that there may be other well established colonies in outlying districts near the Catskills or Adirondacks of which there is no official knowledge. The state in the prosecution of its forestry work should make thorough investigations, especially along the eastern border in sections where there is the greater danger of the incoming of the caterpillar and thus prevent its doing the tremendous damage which it has done in Massachusetts.

THE NEW GEOLOGICAL SURVEY BUILDING

AFTER a campaign lasting 26 years the United States Geological Survey has received generous recognition at the hands of congress in the authorization of an expenditure of \$2,596,000 for the construction of a fireproof building "of modern office-building type of architecture." With this sum it is proposed to erect a building on ground already owned by the government which shall accommodate, besides the Geological Survey, the Reclamation Service, the Indian Office and the Bureau of Mines, all bureaus of the Interior Depart-

ment whose work is closely related to that of the Survey and among all of which there is more or less constant cooperation. The public buildings law, which carries the Survey item, authorizes an immediate appropriation of \$596,000, the balance to be appropriated as needed in construction. Plans can thus go forward at once for the construction of the new building. For the needs of the Survey and the other bureaus mentioned an up-to-date, conveniently arranged, and well-lighted building is of especial importance. Too many of the civil employees at Washington work in part or exclusively by artificial light, in quarters that may be compared to dungeons, a condition which is suggestive of medieval times, when the first requirement of castles was walls thick enough to resist the attacks of battering rams and catapults, or of the still more ancient period when huge, ornate pillars and columns were the fashion, regardless of the arrangements with respect to light and convenience on the inside of the building. The innovation of providing a structure of the modern office type for government "workshops" in which a maximum of the best work is the first consideration, such as will occupy the new building, will be welcomed.

Mr. Alfred H. Brooks, of the Alaska Division, Mr. Sledge Tatum, of the Topographic Branch, and Mr. Herman Stabler, of the Water Resources Branch, of the Geological Survey, have been appointed an advisory committee to assist the director in regard to the plans for the new building.

SCIENTIFIC NOTES AND NEWS

FOR the meeting of the British Association, which will take place in Birmingham on September 10-17 next, under the presidency of Sir Oliver Lodge, F.R.S., the following sectional presidents have been appointed: A (mathematics and physics), Dr. H. F. Baker, F.R.S.; B (chemistry), Professor W. P. Wynne, F.R.S.; C (geology), Professor E. J. Garwood; D (zoology), Dr. H. F. Gadow, F.R.S.; E (geography), Professor H. N. Dickson; F (economics), Rev. P. H. Wicksteed; G (engineering), J. A. F. Aspinall, M.Eng.; H (an-

thropology), Sir Richard Temple, Bart., C.I.E.; I (physiology), Professor F. Gowland Hopkins, F.R.S.; K (botany), Miss Ethel Sargant, F.L.S.; L (education), Principal E. H. Griffiths, F.R.S.; M (agriculture), Professor T. B. Wood.

THE following fifteen candidates have been selected by the council of the Royal Society to be recommended for election into the society: Professor V. H. Blackman, Dr. William Bulloch, Mr. D. L. Chapman, Professor W. E. Dalby, Dr. T. R. Elliott, Professor J. C. Fields, Dr. J. S. Flett, Professor J. P. Hill, Mr. A. R. Hinks, Professor F. Keeble, Professor A. Keith, Dr. K. Lucas, Professor O. W. Richardson, Dr. W. Bosenhain, and Mr. G. W. Walker.

THE university faculty of Cornell University passed on March 14 the following resolution:

WHEREAS Professor Willard C. Fisher, a distinguished alumnus and former fellow of the university, has been dismissed from the chair of economics and social science at Wesleyan University on grounds stated in the letters of January 27, 1913, exchanged between the president of Wesleyan University and Professor Fisher; therefore, *Resolved*, that the faculty of Cornell University extend to Professor Fisher greetings and assurance of regard, with the message that his *alma mater* still seeks to maintain and extend the spirit of liberality, toleration and loyalty to truth, illustrated by the principles and lives of its founders, Ezra Cornell and Andrew D. White.

ON May 3 the Duke of Northumberland will be installed as chancellor of Durham University in succession to the late dean of Durham. The following are among the honorary degrees to be conferred: D.C.L., Lord Rayleigh; D.Sc., Sir Archibald Geikie, P.R.S., Sir J. J. Thomson, F.R.S., Sir William Crookes, F.R.S., Sir William Ramsay, F.R.S., Sir J. A. Ewing, F.R.S., Sir T. C. Allbutt, and Professor E. B. Poulton, F.R.S.

THE Harris lecture committee of Northwestern University has announced that the Norman Waite Harris lectures for 1913-14 will be delivered by Dr. Edwin Grant Conklin, professor of zoology at Princeton University.

The general subject of his lectures will be heredity and eugenics.

DR. LLOYD MORGAN, F.R.S., has been appointed Herbert Spencer lecturer for 1913 at the University of Oxford.

DR. ERNST MACH, professor of physics at Vienna, celebrated his seventy-fifth birthday on February 18.

THE trustees of the Peabody Museum, Salem, Mass., have granted Professor Edward S. Morse a year's leave of absence from the directorship with full salary, in order that he may complete his revision of the New England Mollusca and prepare for publication his Japanese journals.

DR. OSKAR BOLZA, honorary professor of mathematics in the University of Freiburg, who was for eighteen years actively associated with the department of mathematics in the University of Chicago and who is still non-resident professor in that department, will give courses during the summer quarter of the present year.

PROFESSOR CHARLES LANE POOR, of Columbia University, has been given leave of absence for next year. Professor Edward Kاسner will have leave of absence during the second half year.

AT the recent meeting of the American Breeders' Association, Dr. David Fairchild, of Washington, was elected president, and Professor W. E. Castle, of Harvard University, vice-president.

OFFICERS of the Association of American Medical Colleges elected at Chicago, on February 26, are: *President*, E. P. Lyon, St. Louis University; *Vice-president*, F. F. Westbrook, University of Minnesota; *Secretary-treasurer*, F. C. Zapple, University of Illinois.

EDWARD W. BERRY, of the Johns Hopkins University, has been elected a member of the Société Géologique de France.

DR. S. W. STRATTON, director of the United States Bureau of Standards, Washington, D. C., has been elected a member of the council of the Underwriters' Laboratories, Chicago, Ill. The council is made up of twenty-

two leading engineers and experts of the United States and Canada, who serve without recompense and supervise the technical work of the institution.

ARTHUR H. BLANCHARD, M. Am. Soc. C. E., professor of highway engineering, Columbia University, has been appointed by Governor Sulzer a member of the advisory commission on highways for the state of New York.

MR. ANDREW H. PALMER, A.B. (Minnesota, '08), A.M. (Harvard, '09), formerly research assistant at Blue Hill Meteorological Observatory, has been appointed magnetic observer in the department of terrestrial magnetism, Carnegie Institution of Washington.

THE Nantucket Maria Mitchell astronomical fellowship of \$1,000 annually has been awarded a second time to Miss Margaret Harwood, A.B. (Radcliffe, '07). Her residence at the Nantucket Observatory is for six months, the remainder of the year is spent in a larger observatory of her own choice. She has elected to continue her researches at the Harvard College Observatory during this semester.

ASSOCIATE PROFESSOR HERBERT E. SLAUGHT, of the department of mathematics in the University of Chicago, has recently become the managing editor of the *American Mathematical Monthly*—a journal for teachers of mathematics in the collegiate and advanced secondary fields.

ON the suggestion of the high commissioner for Cyprus, Sir Ronald Ross is this month visiting the island to investigate the causes of the prevalence of malarial fever.

THE Costa Rica-Panama Boundary Commission, of which Professor John F. Hayford, of Northwestern University College of Engineering, is chairman, is now in session at Northwestern University, compiling the results of the survey and investigations made a little over a year ago to settle the boundary dispute between the two countries. The commission was appointed by Chief Justice White, and the case will be argued before him as soon as the maps and information are complete. Director Hayford is also engaged in a

commission for the Carnegie Institution, the result of which is to determine the amount of evaporation of the five great lakes.

THE geological museum of Harvard University is sending G. C. Curtis to Hawaii to collect data for a naturalistic model of Kilauea. Kilauea crater lies within the proposed, and recently surveyed, U. S. National Volcano Park, where the Massachusetts Institute of Technology has recently erected an observatory. Mr. Curtis is the first American geologist to specialize in land relief and has during the past fifteen years brought a new motive and standard into American work. The model of Kilauea will be 12 feet long on the scale of 1:1500, and Museum Curator Sayles expects it to be unique in the contributions to the study of volcanoes.

PROFESSOR JOSEPH S. AMES, director of the physical laboratory, Johns Hopkins University, delivered an address on "Modern Views of the Structure of Matter" before the Science Club of the University of Wisconsin on March 4, 1913.

DR. GEORGE A. DORSEY, curator of anthropology in the Field Museum of Natural History, lectured before the Geographical Society of Chicago on March 14, his subject being "An Ethnologist Abroad."

PROFESSOR C. C. THOMAS, of the University of Wisconsin, lectured on March 6 at the University of Illinois on the subject "Marine Engines." The lecture was one of a series of exchange lectures arranged between the two universities.

DR. F. K. CAMERON, of the bureau of soils, U. S. Department of Agriculture, lectured before the Phi Lambda Upsilon Society at Columbia University on "The Solution of the Potash Problem in America," on March 6.

G. WILLIS MOORE, chief of the Federal Weather Bureau, lectured at Oberlin College on March 12, on "The Story of the Air."

SIR RICKMAN J. GODLEE, president of the Royal College of Surgeons, gave, on March 13, the foundation oration before the University College Union Society on "Lister and his Work."

It is stated in *Nature* that an exhibition of works by the late Mr. Thomas Woolner, R.A., has been opened at his studios. The exhibits include a number of objects of interest to men of science, among them being plaster busts of Charles Darwin, Huxley and Richard Quain, bronze medallions of Darwin and Sir Joseph Hooker, a colossal head, in plaster, of Captain Cook, and a bronze medal representing science and research. Any works not disposed of during the exhibition will be sold in the studio by auction.

MR. WILBUR WRIGHT bequeathed \$50,000 to each of his brothers, Rauchlin Wright and Loring Wright, and to his sister, Katharine Wright. His other property he left to his brother, Orville Wright, "who has been associated with me in all the hopes and labors both of my childhood and manhood, and who will, I am sure, use the property in very much the same manner as we would use it together, in case we should both survive to old age; and for this reason I make no specific bequest to charity."

PROFESSOR ADAM SEDGWICK, F.R.S., formerly professor of zoology at the University of Cambridge, and since 1909 in the Imperial College of Science, London, has died at the age of fifty-seven years.

SIR WILLIAM ARROL, the distinguished British bridge builder, died on February 20, at the age of seventy-four years.

MR. GEORGE MATTHEY, F.R.S., who, while actively engaged in commercial work, made experiments in scientific metallurgy, died on February 14, aged eight-seven years.

DR. M. M. MCHARDY, late professor of ophthalmology in King's College, London, inventor of the registering perimeter which bears his name, died on February 8, at the age of sixty years.

PROFESSOR W. TAIT, in charge of chemistry in the civil engineering college at Sibpur, near Calcutta, died on February 19.

M. ALFRED MAURICE PICARD, the eminent French engineer, member of the Paris Academy of Sciences, died on March 8, aged sixty-nine years.

THE death is announced of Professor William H. Lennon, for forty-two years head of the department of science in the Brockport State Normal School, New York.

PHI LAMBDA Upsilon, the honorary chemical society, will hold its biennial convention at Milwaukee, Wis., March 24 and 25, just preceding the meeting of the American Chemical Society. The headquarters for the convention will be the Hotel Pfister.

THE regents of the University of Wisconsin have voted to extend an invitation to the Association of American Agricultural Colleges and Experiment Stations to hold a four-week graduate school in agriculture and home economics at the university, in July, 1914.

THE German Association of Engineers is making preparations for the reception of the American Society of Mechanical Engineers, which will hold its annual meeting this year in Leipzig. The Americans will arrive at Hamburg on June 19. Following the meeting they will make a fortnight's tour of Germany.

THE twenty-second session of the Marine Biological Laboratory of Stanford University, will begin Tuesday, May 27, 1913. The regular course of instruction will continue six weeks, closing July 8. Investigators and students working without instruction may make arrangements to continue their work through the summer. The laboratory, which is at Pacific Grove, will be under the general supervision of Professor F. M. McFarland, instructor in charge.

A CONFERENCE on the Conservation of Human Life will be held at Reed College, Portland, Oregon, on May 9, 10 and 11, 1913. There will be lectures, discussions, exhibits, moving pictures, out-of-door games and meetings of societies. All organizations and individuals devoted to human welfare are invited to take part in the conference. Fifteen rooms are available for the exhibits and fifteen rooms for meetings of such organizations. Three assembly rooms are equipped for stereopticon exhibitions. The following topics suggest the

scope of the conference: Organized efforts to abolish war, venereal diseases and child labor; to obtain pure foods, to prevent tuberculosis, to promote temperance, to improve conditions of labor, to safeguard men at sea and on railroads, to improve country life conditions, to better the living conditions of prisoners, juvenile offenders and other defectives, to prevent contagion, to curb occupational diseases, to solve the housing problems of cities, and the health problems of immigration, to promote school hygiene, playgrounds and recreation centers.

THE coroner of Cook County, with headquarters in Chicago, is about to establish a chemical laboratory, primarily for toxicological chemistry. The salary of the chemist in charge will be \$2,500 per annum, and there will be one assistant. The work will be directed by an advisory committee consisting of Hon. Harry Olson, chief justice, Municipal Courts of Chicago; Professor John H. Long, professor of chemistry, Northwestern University Medical School; John A. Wesener, M.D., Columbus Memorial Laboratory; Ludvig Hektoen, M.D., director, Memorial Institute for Infectious Diseases; Professor Walter S. Harnes, professor of chemistry and toxicology in the University of Chicago and Rush Medical College. Applications may be sent to Peter M. Hoffman, coroner, Room 500, County Building, Chicago, Illinois.

THE Field Museum of Natural History announces its thirty-eighth Free Lecture Course as follows:

March 1—"A Look into South America," Professor Rollin D. Salisbury, the University of Chicago.

March 8—"Fossil Collecting," Mr. A. W. Slocum, assistant curator, Division of Invertebrate Paleontology.

March 15—"Cultural and Somatic Evidences of Man's Antiquity," Professor George Grant MacCurdy, Yale University.

March 22—"Spain: Country and People," Mr. Arthur Stanley Riggs, New York.

March 29—"Newfoundland," Professor M. L. Fernald, Harvard University.

April 5—"Wild Flowers of the Chicago Region," Dr. C. F. Millspaugh, curator, Department of Botany.

April 12—"Crossing the Andes of Northern Peru," Mr. W. H. Osgood, assistant curator of mammalogy and ornithology.

April 19—"Logging California Redwoods," Mr. Huron H. Smith, assistant curator, Division of Dendrology.

April 26—"Religious and Artistic Thought in China," Dr. Berthold Laufer, associate curator of Asiatic ethnology.

LINCOLN HALL at the University of Illinois was formally dedicated "to the study of the humanities, in memory of Abraham Lincoln, and in the name of the people of Illinois" on Lincoln's birthday, February 12. Representatives from many American educational institutions were present. Addresses on the importance to the commonwealth of adequate provisions for the study of the humanities were made by Professor Bliss Perry, of Harvard University; Dean Frederick J. C. Woodbridge, professor of philosophy at Columbia University, and by Dr. Albert Shaw, editor of the *Review of Reviews*. Bishop Wm. F. McDowell, of Chicago, conducted the ceremony of dedication, and addresses were made by the governor of the state, the president of the board of trustees, the state architect and the president of the university. Dr. Hugo Black, of Union Seminary, New York, spoke on "How Lincoln Appeared to a Scotchman." The sum of two hundred and fifty thousand dollars was appropriated at the session of the Illinois legislature beginning in January, 1909, the hundredth anniversary of Lincoln's birth, for a building to be dedicated to the study of humanities. It was decided to make this building a memorial to Abraham Lincoln, the first citizen of Illinois to be elected president of the United States, the signer of the bill which made the state university possible and the consistent and persevering friend of higher education in state and nation. The scheme of decoration includes a series of

memorial panels, tablets, medallions, inscriptions, etc., relating to Lincoln and his times, so that students and professors at work in this building, or even passing along the walks about it, should be in daily and hourly remembrance of what this man and his coworkers did for the American people. Quarters are provided on the first floor for the classics and for the philosophical group or department; on the second floor, for English and modern languages; and on the third floor, for the social science group, comprising history, economics, politics and sociology. The north and south wings of the fourth floor are set apart for two museums. The museum of classical archeology and art comprises collections designed to show especially the influence on our American life of the fine arts of the Greeks and Romans, particularly sculpture and other forms of antiquities, by means of casts, photographs and original articles. The second museum, the museum of European culture, occupies the north wing of the building and contains much illustrative material. The museum of classic art was opened on November 8. Professor George Henry Chase, of Harvard University, delivered the dedicatory address. The museum of European culture was opened February 6, at which time Professor Kuno Franke, of Harvard University, delivered two addresses.

UNIVERSITY AND EDUCATIONAL NEWS

JAPANESE graduates of Harvard University have subscribed a fund of \$20,000 as the foundation for a lectureship in the department of philosophy to provide for the teaching of Japanese and other Oriental systems of philosophy.

ON March 6, the University of Illinois opened a medical college in Chicago. The property formerly belonging to the College of Physicians was definitely presented by the alumni to the university. It is valued at \$500,000 with an indebtedness of \$245,000. Twice the state legislature by a large major-

ity has appropriated money for a medical school in connection with the university. The first time the bill was vetoed by the governor because of lack of funds, the second time the bill was thrown out on a technicality. At the opening exercises addresses were given by Dr. Frank Billings, dean of Rush Medical College, by Dr. A. R. Edwards, dean of Northwestern University Medical School, by Dr. Arthur Dean Bevan, chairman of council on Medical Education, American Medical Association; by President E. J. James, of the University of Illinois; by Dean W. E. Quine and others.

THE plans for transforming the scientific institutes at Frankfort-on-Main into a university have now been sanctioned by the Prussian ministry of public instruction. The capital subscribed is nearly \$2,000,000.

DR. A. R. FORSYTH, F.R.S., has been appointed chief professor of mathematics at the Imperial College of Science and Technology, London.

MR. AUGUSTINE HENRY, M.A., reader in forestry at Cambridge, has been appointed professor of forestry in the Royal College of Science for Ireland. The chair of forestry at the college has but recently been established.

MR. ROBERT B. BOURDILLON, lecturer in chemistry at Balliol College, Oxford, has been elected to a fellowship in chemistry on the teaching staff of University College.

AT Sheffield University Miss Sophia M. V. Witts, M.D. (London), has been appointed to the newly-instituted post of "lady tutor in anatomy."

THE following appointments have been made in the department of public health at King's College, London: Dr. E. W. Routley, medical officer of health, Aldershot, to be lecturer in sanitary law and administration; Colonel W. G. King, late sanitary commissioner in the Madras Presidency, to be lecturer in applied hygiene in the tropics; Dr. W. F. Roach, to be lecturer on school hygiene for medical officers.